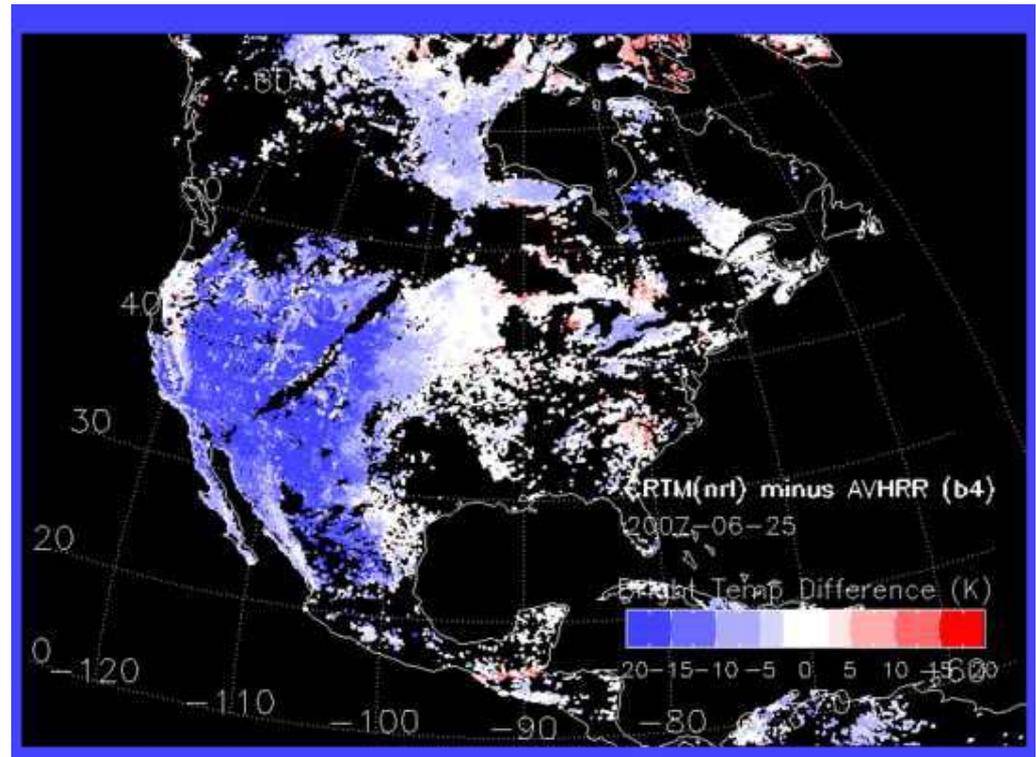


CRTM infrared surface emissivity developments

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Accomplishments:

1. Evaluation of NRL emissivity algorithm in CRTM:
 - CRTM compared to AVHRR observations
 - CRTM run with current internal emissivity and new NRL emissivity
 - High bias (15K) result of biased surface temperature inputs to CRTM
2. Effort underway to establish surface emissivity testbed with accurate surface temperature measurements.
3. New reflectance spectra for matching CRTM with GFS/GDAS land classes using new NCEP land classification.
 - Methodology adapted from NRL algorithm.
 - Based on JPL Spectral Library.



CRTM with NRL emissivity minus AVHRR Tb (band 4)

IR reflectance spectrum for Open Shrubland class

